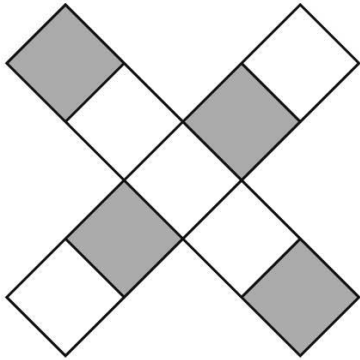


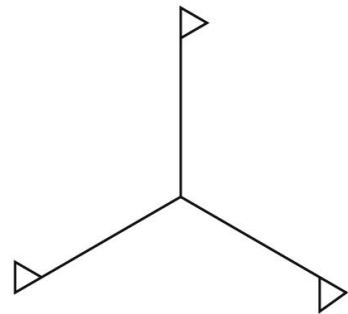
Unit 2- Edexcel Maths (Geometry Revision)

Topics: Symmetry of 2d shapes and special shapes



- a) identify lines of symmetry and draw them in.
- b) identify the order of rotational symmetry.

- a) identify lines of symmetry and draw them in.
- b) identify the order of rotational symmetry.



Write down the name of the quadrilateral that could have the following properties:

four lines of symmetry and rotational symmetry of order 4.

Write down the name of the quadrilateral that could have the following properties:

no lines of symmetry and rotational symmetry of order 2.

Unit 2- Edexcel Maths (Geometry Revision)

Topics: Metric and imperial conversions

Imperial unit conversions

12 inches = 1 foot
3 feet = 1 yard
16 ounces = 1 pound
14 pounds = 1 stone
8 pints = 1 gallon

Metric–imperial approximate equivalent conversions

| <u>Metric</u> | | <u>Imperial</u> | | <u>Metric</u> | | <u>Imperial</u> |
|---------------|---|-----------------|--|---------------|---|-----------------|
| 8 km | → | 5 miles | | 1 kg | → | 2.2 pounds |
| 1 m | → | 39 inches | | 25 g | → | 1 ounce |
| 30 cm | → | 1 foot | | 4.5 litres | → | 1 gallon |
| 2.5 cm | → | 1 inch | | 1 litre | → | 1.75 pints |

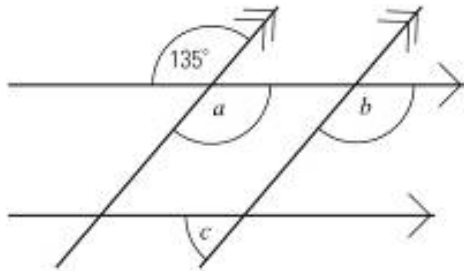
- a A speed-skating circuit is 400 m. How many kilometres is this?
- b How many millilitres of lemonade are contained in a 1.5 l bottle?
- c A can of Cola contains 350 ml. How many litres is this?
- d 150 g of flour are needed to make scones. How many kilograms is this?

- a) Sue has a 40 ft boat. How many metres long is the boat?
- b) Asa has put on 10 kg of weight. About how many stone has he put on?

- a) Approximately how many centimetres are there in 1 ft?
- b) A sign post tells me I am 95 miles from Newcastle. How far is this in kilometres?

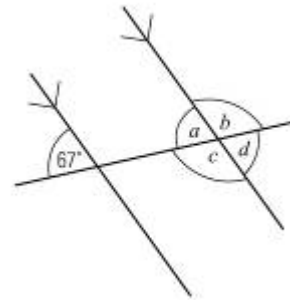
Unit 2- Edexcel Maths (Geometry Revision)

Topics: Angle properties of parallel lines

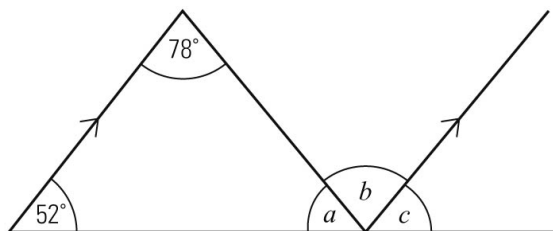


- a**
- b**
- c**
- d**

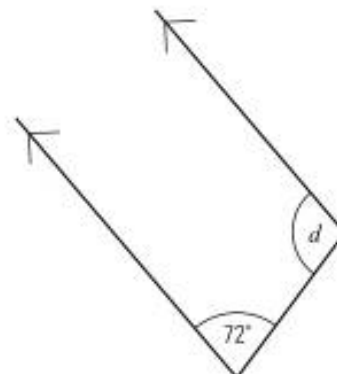
Find all the missing angles in this diagram.
Give reasons for your answers.



Find all the missing angles in this diagram.
Give reasons for your answers.

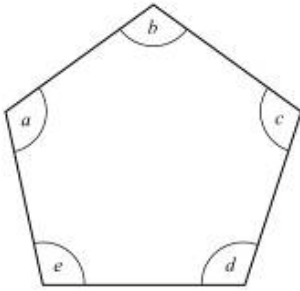


- a**
- b**
- c**

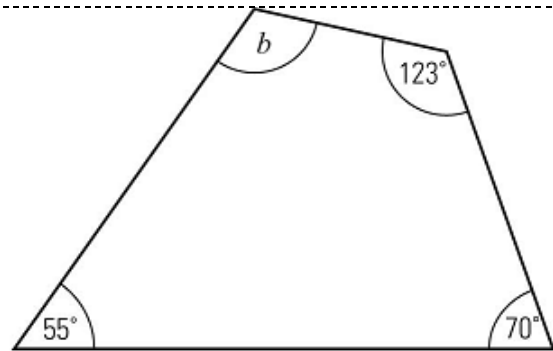


Unit 2- Edexcel Maths (Geometry Revision)

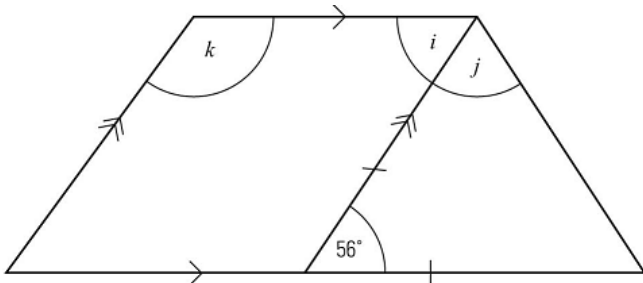
Topics: angle properties of triangles and quadrilaterals



Prove that the sum of the angles of a pentagon is 540° .

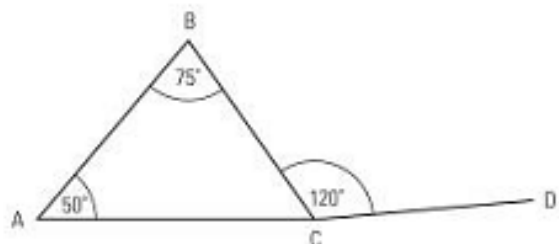


Work out the size of the missing angle.



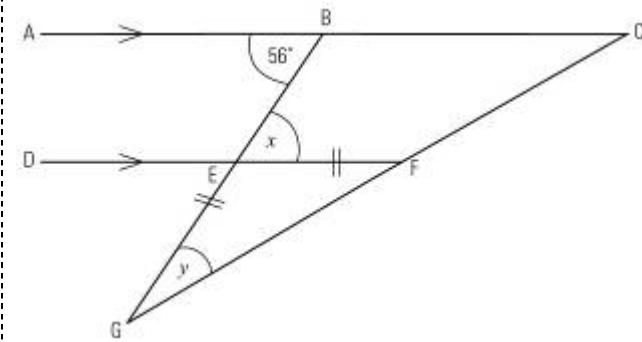
Work out the size of the missing angles.

Explain why ACD cannot be a straight line.



Unit 2- Edexcel Maths (Geometry Revision)

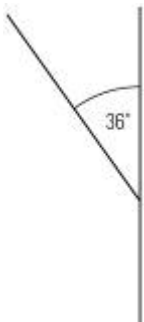
Topics: Parallel lines and Polygons



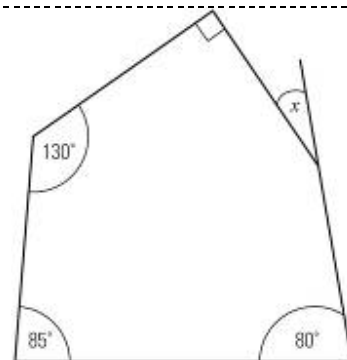
- a** Write down the size of the angles marked x and y .
- b** Give a reason for your answer.

A regular polygon has 15 sides.

- a** Calculate the size of its exterior angle. .
- b** Calculate the size of its interior angle.



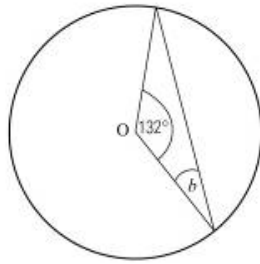
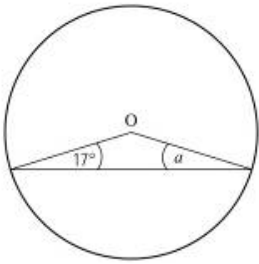
- a** Calculate the size of the interior angle of the polygon.
- b** Calculate the number of sides of the polygon.



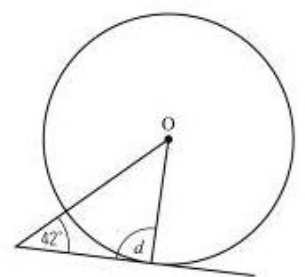
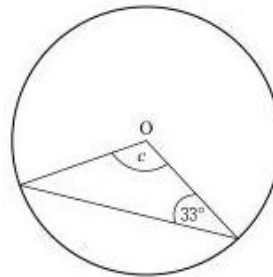
Calculate the value of x .

Unit 2- Edexcel Maths (Geometry Revision)

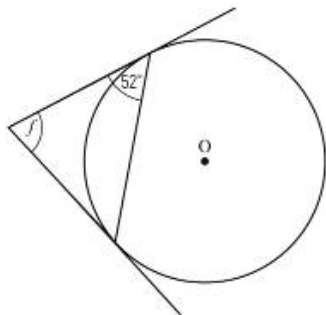
Topics: Isosceles triangle in a circle, tangents to a circle



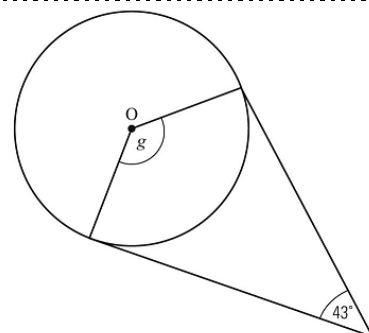
Work out the size of each angle marked with a letter.



Work out the size of each angle marked with a letter.



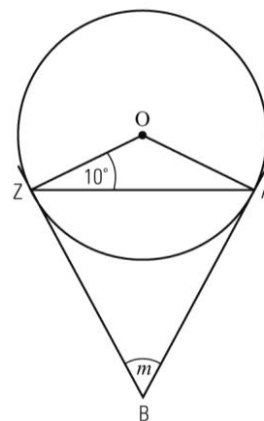
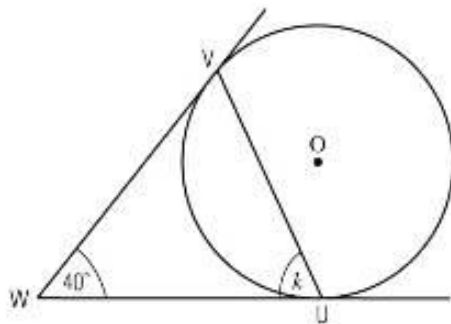
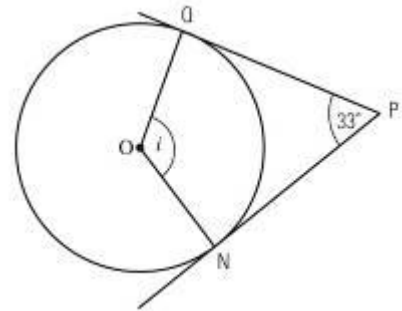
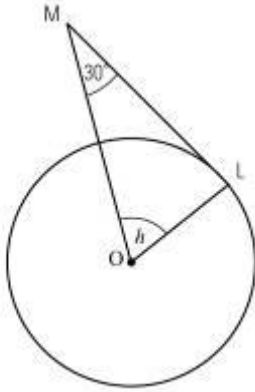
Work out the size of each angle marked with a letter.



Work out the size of each angle marked with a letter.

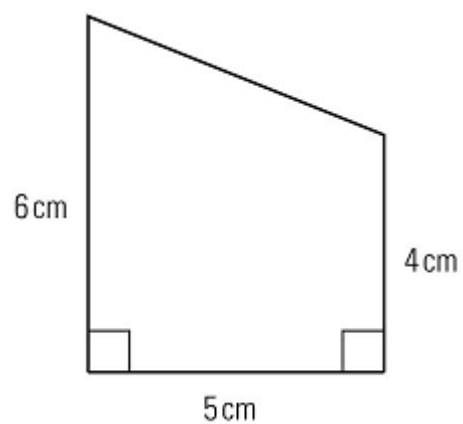
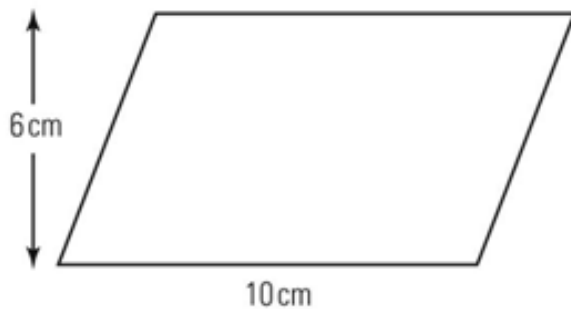
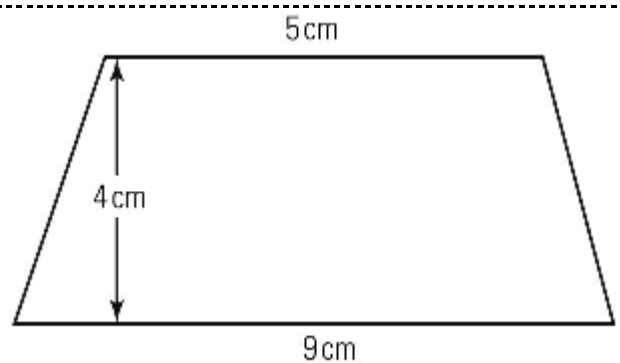
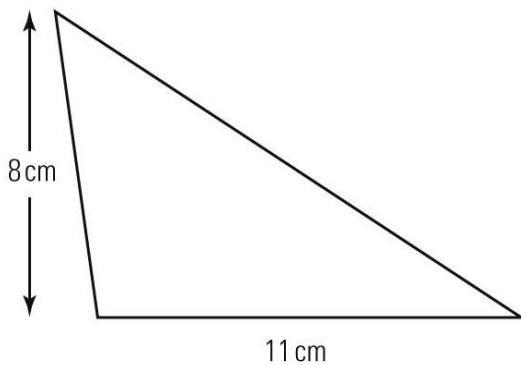
Unit 2- Edexcel Maths (Geometry Revision)

Work out the size of each angle marked with a letter. Give reasons for each answer.



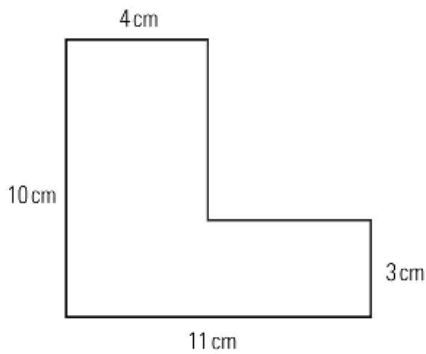
Unit 2- Edexcel Maths (Geometry Revision)

Work out the area of the following shapes.

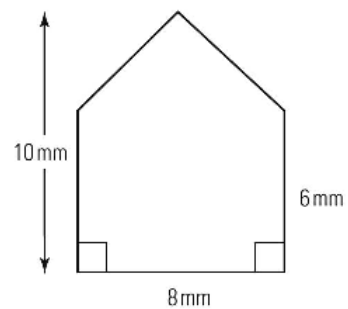


Unit 2- Edexcel Maths (Geometry Revision)

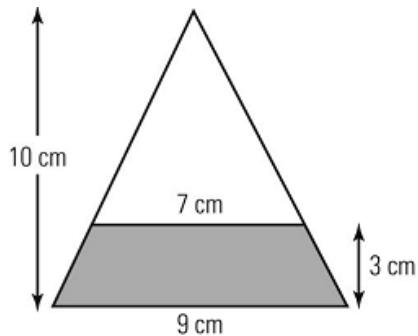
Topics:



Work out the area of this shape.



Work out the area of this shape.



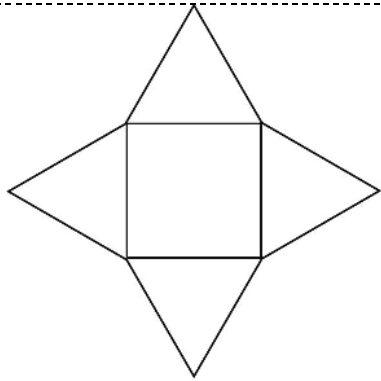
Work out the area of the shaded section of the shape.

A farmer wants to plant a rectangular field with wheat. The field measures 150 m by 90 m. He needs to use 100 g of seed per 5 m².

Calculate the quantity of seed the farmer needs to buy. Give your answer in kg.

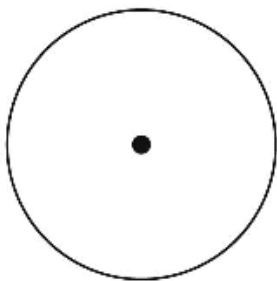
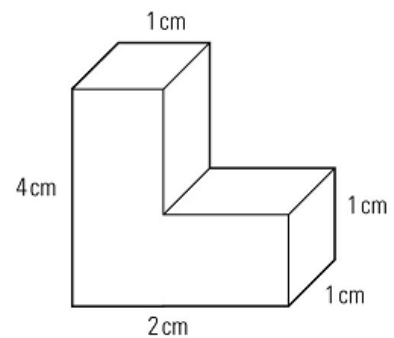
Unit 2- Edexcel Maths (Geometry Revision)

Topics: nets, plans and elevations

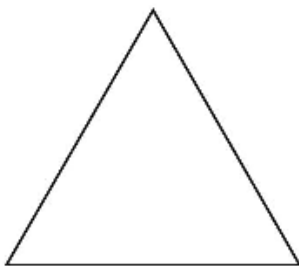


Identify the shape for this net?

Draw elevations and plans of the following shape



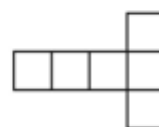
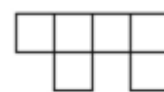
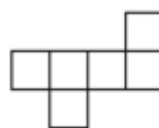
Plan



Elevation

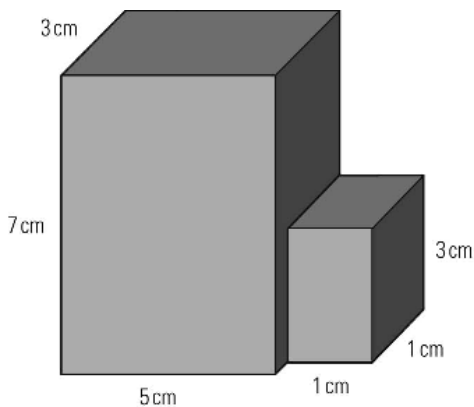
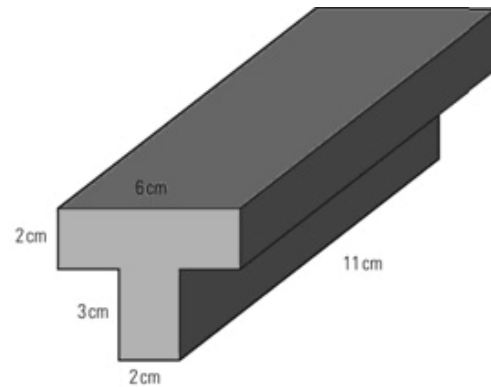
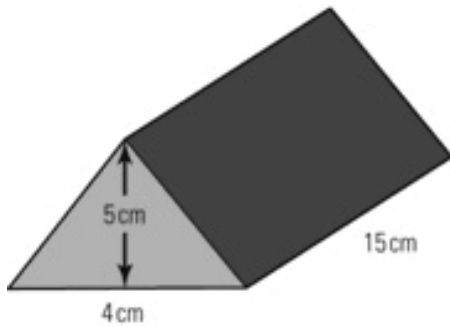
Sketch the shape given by the plan and elevation view

Which of the following are nets of a cuboid?



Unit 2- Edexcel Maths (Geometry Revision)

Work out the volume of these prisms

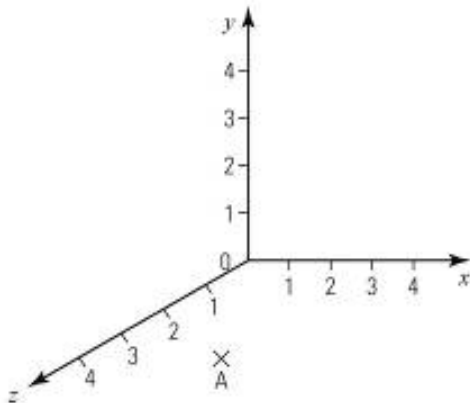
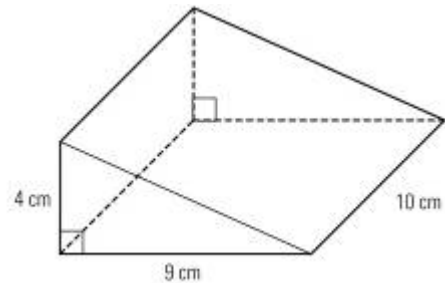
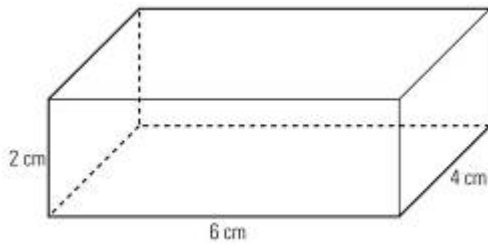


A cube has a volume of 27 cm^3 .

Calculate the length of one side of the cube.

Unit 2- Edexcel Maths (Geometry Revision)

Topics: surface area of a prism and 3d coordinates



Plot these coordinates and join them up to form a cuboid

a B(3, 4, 0)

b C(0, 4, 4)

c D(0, 0, 4)

d E(3, 4, 4)

e F(0, 4, 0)

f G(3, 0, 0)

g H(0, 0, 0)

Find the midpoint of the straight line joining each pair of points.

a P(3, 1, 6) and Q(1, 5, 0)

b A(-2, -2, 8) and B(0, -2, -6)

c M(0, 0, 6) and N(6, 0, 0)